WETLAND VALUE ASSESSMENT COMMUNITY MODEL
Brackish Marsh

Project....... Cameron Creole Watershed Plugs Re–evaluation Marsh type acres......... 10677

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	40	0.46	40	0.46	39	0.45
V2	% Aquatic	60	0.72	65	0.76	80	0.86
V3	Interspersion Class 1	%	0.42	%	0.42	%	0.42
	Class 2	40		40		40	
	Class 3	30		30		30	
	Class 4	30		30		30	
	Class 5						
V4	%OW <= 1.5ft	85	0.90	85	0.90	88	0.84
V5	Salinity (ppt)	3	1.00	3	1.00	3	1.00
V6	Access Value	0.80	0.82	0.80	0.82	0.80	0.82
		HSI =	0.61	HSI =	0.62	HSI =	0.62

WETLAND VALUE ASSESSMENT COMMUNITY MODEL
Brackish Marsh

Project....... Cameron Creole Watershed Plugs Re–evaluation Marsh type acres......... 10677

Condition: Future With Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	40	0.46	40	0.46	41	0.47
V2	% Aquatic	60	0.72	65	0.76	83	0.88
V3	Interspersion Class 1	%	0.42	%	0.42	%	0.42
	Class 2	40		40		40	
	Class 3	30		30		30	
	Class 4	30		30		30	
	Class 5						
V4	%OW <= 1.5ft	85	0.90	85	0.90	90	0.80
V5	Salinity (ppt)	3	1.00	5	1.00	5	1.00
V6	Access Value	0.80	0.82	0.80	0.82	0.80	0.82
		HSI =	0.61	HSI =	0.62	HSI =	0.63

Revised 02–Sept–93

27–Feb–96

AAHU CALCULATION

Project: Cameron Creole Watershed Plugs Re–evaluation

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	10677	0.61	6525.03	
1	10677	0.62	6569.77	6547.40
20	10677	0.62	6589.97	125017.57
			AAHU's =	6578.25

Future With Project			Total	Cummulative
TY	Acres	x HSI	HU's	HU's
0	10677	0.61	6525.03	
1	10677	0.62	6569.77	6547.40
20	10677	0.63	6696.22	126026.94
			AAHU's	6628.72

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	6628.72
B. Future Without Project AAHU's =	6578.25
Net Change (FWP – FWOP) =	50.47

WETLAND VALUE ASSESSMENT COMMUNITY MODEL
Brackish Marsh

Project....... Cameron – Creole Plugs Re – evaluation Marsh type acres......... 1715
East Area (Mangrove Bayou Plug effect only) – *Central Area*
Condition: Future Without Project

Variable		TY 0		TY 1		TY 20	
		Value	SI	Value	SI	Value	SI
V1	% Emergent	38.1	0.44	38.1	0.44	37	0.43
V2	% Aquatic	20	0.44	27	0.49	50	0.65
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 0 0 100	0.40	% 0 0 100	0.40	% 0 0 100	0.40
V4	%OW <= 1.5ft	80	1.00	80	1.00	80	1.00
V5	Salinity (ppt)	4	1.00	4	1.00	4	1.00
V6	Access Value	0.80	0.82	0.80	0.82	0.80	0.82
		HSI =	0.57	HSI =	0.58	HSI =	0.59

15–Nov–94

WETLAND VALUE ASSESSMENT COMMUNITY MODEL
Brackish Marsh

Project....... Cameron–Creole Plugs Re–evaluation   Marsh type acres.........   1715
East Area (Mangrove Bayou Plug effect only)
Condition: Future With Project

Variable		TY 0 Value	TY 0 SI	TY 1 Value	TY 1 SI	TY 20 Value	TY 20 SI
V1	% Emergent	38.1	0.44	38.1	0.44	37.1	0.43
V2	% Aquatic	20	0.44	28	0.50	55	0.69
V3	Interspersion Class 1 Class 2 Class 3 Class 4 Class 5	% 0 0 100	0.40	% 0 0 100	0.40	% 0 0 100	0.40
V4	%OW <= 1.5ft	80	1.00	80	1.00	80	1.00
V5	Salinity (ppt)	4	1.00	3.5	1.00	3.5	1.00
V6	Access Value	0.80	0.82	0.80	0.82	0.80	0.82
		HSI =	0.57	HSI =	0.58	HSI =	0.60

AAHU CALCULATION

Project: Cameron–Creole Plugs Re–evaluation
East Area (Mangrove Bayou Plug effect only)

| Future Without Project | | | Total | Cummulative |
TY	Acres	x HSI	HU's	HU's
0	1715	0.57	972.24	
1	1715	0.58	986.49	979.36
20	1715	0.59	1016.69	19030.16
			AAHU's =	1000.48

| Future With Project | | | Total | Cummulative |
TY	Acres	x HSI	HU's	HU's
0	1715	0.57	972.24	
1	1715	0.58	988.43	980.33
20	1715	0.60	1025.09	19128.41
			AAHU's	1005.44

NET CHANGE IN AAHU'S DUE TO PROJECT	
A. Future With Project AAHU's =	1005.44
B. Future Without Project AAHU's =	1000.48
Net Change (FWP – FWOP) =	4.96

** BRACKISH MARSH: FUTURE WITHOUT PROJECT-- TY0 **
* ***

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(> = 10% CANOPY COVER):

PERCENT = 55   ** SIV1 =   1.00 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

PERCENT = 1   ** SIV2 =   0.31 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS = 2   ** SIV3 =   0.80 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	320
2	4080
3	0
TOTAL ACRES....	4400

** SIV4 =   0.98 **

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	650
2	1800
3	1000
4	150
TOTAL ACRES....	3600

** SIV5 =   0.76 **

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT = 9   ** SIV6 =   1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE = 0.8 ** SIV7 =   0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITHOUT PROJECT, TY0

** HSI   TY0   0.74 **

** BRACKISH MARSH: FUTURE WITHOUT PROJECT-- TY1 **

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(> = 10% CANOPY COVER):

PERCENT =   56   ** SIV1 =   1.00 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

PERCENT =   1   ** SIV2 =   0.31 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS =   2   ** SIV3 =   0.80 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	326
2	4136
3	0
TOTAL ACRES....	4462

** SIV4 =   0.96 **

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	520
2	1680
3	1000
4	150
TOTAL ACRES....	3350

** SIV5 =   0.75 **

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT =   8.5   ** SIV6 =   1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE =   0.8   ** SIV7 =   0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITHOUT PROJECT, TY1

** HSI   TY1   0.74 **

** BRACKISH MARSH: FUTURE WITHOUT PROJECT-- TY5 **

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(>= 10% CANOPY COVER):

PERCENT = 59   ** SIV1 = 1.00 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

PERCENT = 5   ** SIV2 = 0.37 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS = 2   ** SIV3 = 0.80 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	351
2	4361
3	0
TOTAL ACRES....	4712

** SIV4 = 0.96 **

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	390
2	1560
3	1000
4	150
TOTAL ACRES....	3100

** SIV5 = 0.74 **

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT = 8.5   ** SIV6 = 1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE = 0.8   ** SIV7 = 0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITHOUT PROJECT, TY5

** HSI TY5   0.76 **

** BRACKISH MARSH: FUTURE WITHOUT PROJECT – –   TY 10   **

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(> = 10% CANOPY COVER):

PERCENT =   63   ** SIV1 =   1.00 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

PERCENT =   5   ** SIV2 =   0.37 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS =   2   ** SIV3 =   0.80 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	382
2	4643
3	0
TOTAL ACRES....	5025

** SIV4 =   0.96 **

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	260
2	1440
3	1000
4	150
TOTAL ACRES....	2850

** SIV5 =   0.73 **

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT =   8.5   ** SIV6 =   1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE =   0.8   ** SIV7 =   0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITHOUT PROJECT, TY10

** HSI   TY10   0.76 **

** BRACKISH MARSH: FUTURE WITHOUT PROJECT -- TY15 **

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(> = 10% CANOPY COVER):

PERCENT =   67   ** SIV1 =   1.00 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

PERCENT =   5   ** SIV2 =   0.37 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS =   2   ** SIV3 =   0.80 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	413
2	4924
3	0
TOTAL ACRES....	5337

** SIV4 =   0.96 **

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	130
2	1320
3	1000
4	150
TOTAL ACRES....	2600

** SIV5 =   0.71 **

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT =   8.5   ** SIV6 =   1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE =   0.8 ** SIV7 =   0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITHOUT PROJECT, TY15

** HSI   TY15   0.76 **

** BRACKISH MARSH: FUTURE WITHOUT PROJECT -- TY20 **
* **

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(>= 10% CANOPY COVER):

PERCENT = 71   ** SIV1 =   0.98 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

PERCENT = 5   ** SIV2 =   0.37 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS = 3   ** SIV3 =   0.50 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	444
2	5206
3	0
TOTAL ACRES....	5650

** SIV4 =   0.96 **

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	0
2	1200
3	1000
4	150
TOTAL ACRES....	2350

** SIV5 =   0.69 **

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT = 8.5   ** SIV6 =   1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE = 0.8   ** SIV7 =   0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITHOUT PROJECT, TY20

** HSI   TY20   0.72 **

** BRACKISH MARSH: FUTURE WITH PROJECT – –   TY0   **

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
    (>= 10% CANOPY COVER):

PERCENT =   55   ** SIV1 =   1.00 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
    BY AQUATIC VEGETATION:

PERCENT =   1   ** SIV2 =   0.31 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS =   2   ** SIV3 =   0.60 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES	
1	320	
2	4080	** SIV4 = 0.96 **
3	0	
TOTAL ACRES....	4400	

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES	
1	650	
2	1800	** SIV5 = 0.76 **
3	1000	
4	150	
TOTAL ACRES....	3600	

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT =   9   ** SIV6 =   1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE =   0.8   ** SIV7 =   0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
    IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
    WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
    0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITH PROJECT,   TY0

** HSI   TY0   0.74 **

** BRACKISH MARSH: FUTURE WITH PROJECT-- TY1 **
* **

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(> = 10% CANOPY COVER):

```
                              **************************
                              **                      **
        PERCENT =      56     ** SIV1 =       1.00     **
                              **                      **
                              **************************
```

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

```
                              **************************
                              **                      **
        PERCENT =       1     ** SIV2 =       0.31     **
                              **                      **
                              **************************
```

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

```
                              **************************
                              **                      **
        CLASS  =        2     ** SIV3 =       0.80     **
                              **                      **
                              **************************
```

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	0
2	4492
3	0
TOTAL ACRES....	4492

```
                              **************************
                              **                      **
                              ** SIV4 =       1.00     **
                              **                      **
                              **************************
```

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	520
2	1560
3	1000
4	150
TOTAL ACRES....	3230

```
                              **************************
                              **                      **
                              ** SIV5 =       0.74     **
                              **                      **
                              **************************
```

VARIABLE 6: AVERAGE ANNUAL SALINITY

```
                              **************************
                              **                      **
        PPT  =         7       ** SIV6 =       1.00     **
                              **                      **
                              **************************
```

VARIABLE 7: AQUATIC ORGANISM ACCESS

```
                              **************************
                              **                      **
        ACCESS VALUE =   0.8   ** SIV7 =       0.80     **
                              **                      **
                              **************************
```

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITH PROJECT, TY1

```
        ********  ******************************
        ********  ******************************
        **                                    **
        ** HSI   TY1          0.74            **
        **                                    **
        ********  ******************************
        ********  ******************************
```

** BRACKISH MARSH: FUTURE WITH PROJECT--   TY5   **
* ....

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(> = 10% CANOPY COVER):

PERCENT =   61   ** SIV1 =   1.00 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

PERCENT =   15   ** SIV2 =   0.51 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS =   2   ** SIV3 =   0.80 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	0
2	4862
3	0
TOTAL ACRES....	4862

** SIV4 =   1.00 **

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	390
2	1320
3	1000
4	150
TOTAL ACRES....	2860

** SIV5 =   0.72 **

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT =   7   ** SIV6 =   1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE =   0.8   ** SIV7 =   0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITH PROJECT, TY5

** HSI   TY5   0.81 **

** BRACKISH MARSH: FUTURE WITH PROJECT--   TY 10   **

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(>= 10% CANOPY COVER):

PERCENT =   67   ** SIV1 =   1.00 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

PERCENT =   15   ** SIV2 =   0.51 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS =   2   ** SIV3 =   0.80 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	0
2	5325
3	0
TOTAL ACRES....	5325

** SIV4 =   1.00 **

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	260
2	1080
3	1000
4	150
TOTAL ACRES....	2490

** SIV5 =   0.69 **

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT =   7   ** SIV6 =   1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE =   0.8   ** SIV7 =   0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITH PROJECT, TY 10

** HSI   TY 10   0.80 **

** BRACKISH MARSH: FUTURE WITH PROJECT --   TY15   **

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(> = 10% CANOPY COVER):

PERCENT =   72   ** SIV1 =   0.97 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

PERCENT =   15   ** SIV2 =   0.51 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS =   3   ** SIV3 =   0.50 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES	
1	0	
2	5787	** SIV4 = 1.00 **
3	0	
TOTAL ACRES....	5787	

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES	
1	130	
2	840	** SIV5 = 0.65 **
3	1000	
4	150	
TOTAL ACRES....	2120	

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT =   7   ** SIV6 =   1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE =   0.8   ** SIV7 =   0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITH PROJECT,   TY15

** HSI   TY15   0.76 **

** BRACKISH MARSH: FUTURE WITH PROJECT--   TY20   **

VARIABLE 1: PERCENT OF WETLAND AREA COVERED BY EMERGENT VEGETATION
(> = 10% CANOPY COVER):

PERCENT =   78   ** SIV1 =   0.87 **

VARIABLE 2: PERCENT OF OPEN WATER AREA DOMINATED (> 50% CANOPY COVER)
BY AQUATIC VEGETATION:

PERCENT =   15   ** SIV2 =   0.51 **

VARIABLE 3: MARSH EDGE AND INTERSPERSION:

CLASS =   3   ** SIV3 =   0.50 **

VARIABLE 4: WATER DURATION IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	0
2	6250
3	0
TOTAL ACRES....	6250

** SIV4 =   1.00 **

VARIABLE 5: OPEN WATER DEPTH IN RELATION TO MARSH SURFACE:

CLASS	ACRES
1	0
2	600
3	1000
4	150
TOTAL ACRES....	1750

** SIV5 =   0.59 **

VARIABLE 6: AVERAGE ANNUAL SALINITY

PPT =   7   ** SIV6 =   1.00 **

VARIABLE 7: AQUATIC ORGANISM ACCESS

ACCESS VALUE =   0.8   ** SIV7 =   0.80 **

***NOTE: THE HSI FORMULA WILL NOT ALLOW AN SI OF ZERO. THEREFORE,
IF THE ACCESS VALUE IS REALLY ZERO (I.E., NO OPENINGS), SIV7
WILL SHOW ON THE SCREEN AS 0.00, BUT THE ACTUAL VALUE WILL BE
0.0001, WHICH WILL BE CARRIED DOWN TO THE HSI FORMULA.

HSI CALCULATION, BRACKISH MARSH, FUTURE WITH PROJECT, TY20

** HSI   TY20   0.73 **

**   AAHU CALCULATION: FUTURE WITH PROJECT   **
***1

TY	ACRES	HSI	TOTAL HU'S	CUMMUL. HU'S
0	8,000	0.74132	5,930.57	
1	8,000	0.74212	5,936.97	5,933.77
5	8,000	0.80814	6,465.09	24,804.12
10	8,000	0.80491	6,439.30	32,260.98
15	8,000	0.76001	6,080.10	31,298.50
20	8,000	0.73125	5,850.03	29,825.32
			AAHU'S	6,206.13

**   AAHU CALCULATION: FUTURE WITHOUT PROJECT   **
**   ***1

TY	ACRES	HSI	TOTAL HU'S	CUMMUL. HU'S
0	8,000	0.74132	5,930.57	
1	8,000	0.74043	5,923.48	5,927.03
5	8,000	0.76175	6,093.99	24,034.95
10	8,000	0.76043	6,083.43	30,443.56
15	8,000	0.75884	6,070.75	30,385.44
20	8,000	0.72211	5,776.89	29,619.09
			AAHU'S	6,020.50

**   NET CHANGE IN AAHU'S DUE TO PROJECT   **
*   ***1

A.   FUTURE WITH PROJECT AAHU'S =   6,206.13

B. FUTURE WITHOUT PROJECT AAHU'S =   6,020.50
                                      _____

**   **
**   **
**   **
**   NET CHANGE (A. − B.) =   185.63   **
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**   **
**   **